

2nd International Workshop on Dynamics in Confinement



Grenoble, January 22 - 25, 2003



1st Circular

The dynamic properties of condensed matter confined in space deviate appreciably from those of the bulk state. In recent years a growing number of experimental, computational and theoretical studies aimed to investigate these confinement phenomena and to disentangle them from effects which are induced by the confining media (e.g. surface interactions). With respect to supercooled liquids and glasses the existence and relevance of a length scale of cooperativity have been the subject of an extensive discussion. Here, spatial confinement allows some control of this cooperativity length. Besides the understanding of the fundamental aspects of confined matter, there is also a wide interest in its properties for industrial application.

This workshop addresses scientists working in experimental, theoretical and computational areas on this subject.

Confining media should be taken in a fairly wide sense

- *micro- and nanoporous matrices,*
- *tubes, channels, layers, films*
- *clathrates, micelles, blockcopolymers*
- *crystallites etc.*
- *other materials where confinement may play an essential role.*

Confined media considered here are mainly

- *liquids and glasses*
- *water and other simple organic and inorganic liquids*
- *complex liquids, polymers, biological systems*
- *quantum liquids etc.*

This second international workshop on 'Dynamics in Confinement' aims to summarise the status of research by *spectroscopic methods, theoretical concepts and computer simulations*. Like the first workshop it will promote collaboration among scientists working in this field. In addition, this workshop aims to introduce and to attract scientists to inelastic neutron scattering techniques, which are powerful experimental tools due to their space and time resolution characteristics and the high penetration of materials by the neutron-probe. We encourage scientists working in the *preparation and characterisation* of such confinements as well as researchers involved in *industrial applications*, for which the understanding of the microscopic dynamics is of importance, to participate in this workshop.

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Pre-registration before May 15, 2002 at: <http://www.ill.fr/Events/ONSITE/confit2003/confit.html>